WIN-TACT

DC-DC Isolated Converter
Wide I/P Range : 40Vdc~60Vdc
250W(Fan less) / 300W(Air) Open Frame

WP150D11-30ADJ(+30V) (AKM50)

Features:

- Convection Cool, High Efficiency＞90%
- DC Input Range :40 ~ 60Vdc(With Reverse Protection)
- OCP,OVP,OTP,UVLO,VDC Input Reverse Protection
- Mini. Size, Low Profile 3” x 5” x 1.6”
- Wide Operating Ambient Temp. -40 ~ +85℃
- Safety Compliant With UL 62368-1
- Input To Output Isolation: 4242VDC
- High Power 250W@ 50℃ Fan-less (note1)
- High Power 180W@ 85℃ Fan-less (note1)
- High Power 300W max. With a 20CFM Airflow

Application:

Telecommunication

Industrial Equipment

Network , POE

Safety Certified:

INPUT SPECIFICATIONS	
INPUT VOLTAGE	DC Input (40 ~ 60V)
INPUT FREQUENCY	
INPUT CURRENT	9.0A@ 40V/IP , 6.0A@ 60 V/IP
INRUSH CURRENT (Typ.)	50A@ 60 V/IP
POWER FACTOR (Typ.)	
EFFICIENCY (Typ.)	90%
LEAKAGE CURRENT	

OUTPUT SPECIFICATIONS	
VOLTAGE	+30V
RATED LOAD(Convection)	0 ~ 10A
Max. LOAD	10A
RIPPLE & NOISE	300mV
REGULATION	±3%
Max. POWER	300W

PROTECTION SPECIFICATIONS	
OCP: (Over Load Protection)	110 ~ 150%
OVP: (Over Voltage Protection)	110 ~ 130%
VDC Input Reverse Protection	Yes
VDC Input UVLO Protection	≧40V/ON , ≦35V/OFF

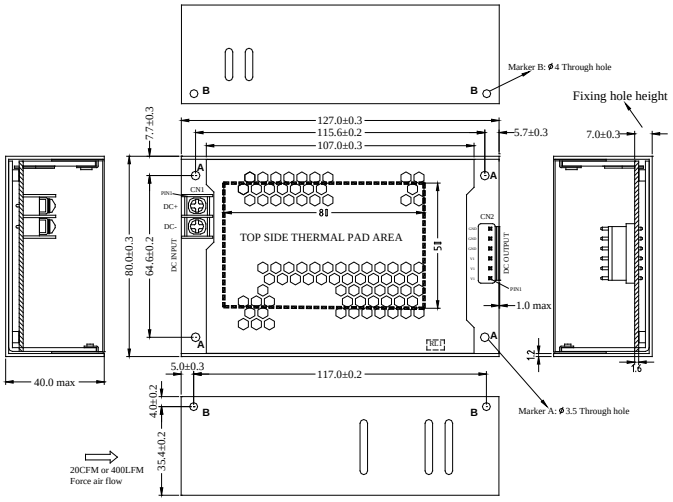
GENERAL CHARACTERISTIC	
I/O Isolation Voltage (rated)	4242VDC
I/O Isolation Resistance	30MΩ@500V
COOLING	Convection/250W, 20CFM for 300W

SAFETY & ENVIRONMENTAL SPECIFICATIONS	
SAFETY APPROVALS REQUIRED :	UL , cUL , CE , FCC , CB
SAFETY STANDARDS	UL 62368-1 , IEC 62368-1:2014
EMC EMISSION	EN55032(CISPR22) & FCC Class A.
OPERATING AMBIENT TEMP.	-40 ~ 85℃

Typical Mechanical Drawing :

WP150D11-30ADJ (Connector code→AK)

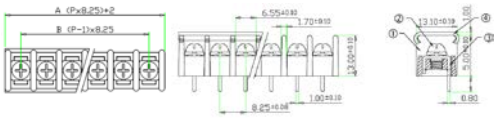
Case dimension (L*W*H): 127 x 80 x 40mm



Input Connector (CN1) :

HOWDER HD Terminal Block : HD-816-02 or Equ.
Screw : M3.0

Pin	Signal
1	DC+
2	DC-

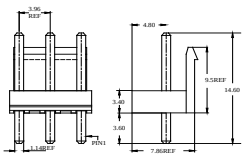


Output Connector (CN2) –6PIN:

JST B*P-VH Series or TKP PVHI-XX Series or Equ.
Mates with JST VHR-*N Series or TKP HVH-XX Series or Equ.

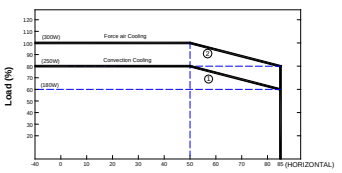
Pin	Signal	Pin	Signal
1	V1	4	GND
2	V1	5	GND
3	V1	6	GND

V1=30V



De-rating Curve

■ De-rating Curve A1 (Load VS Ambient)



Note: ① Convection (Temperature derating) [-2.0W / degree 50℃ to 85℃]
② Fan air (400LFM) [-1.43W / degree 50℃ to 85℃]

Note 1:
It is recommended that the bottom side of U-type heat sink of the power unit can be directly attached to the system iron case or the system heat sink to help the power unit to dissipate heat and achieve the maximum rating power on ambient temperature from 50℃ to 85℃condition.
Please reference to De-Rating Curve A1 (Load VS Ambient)

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